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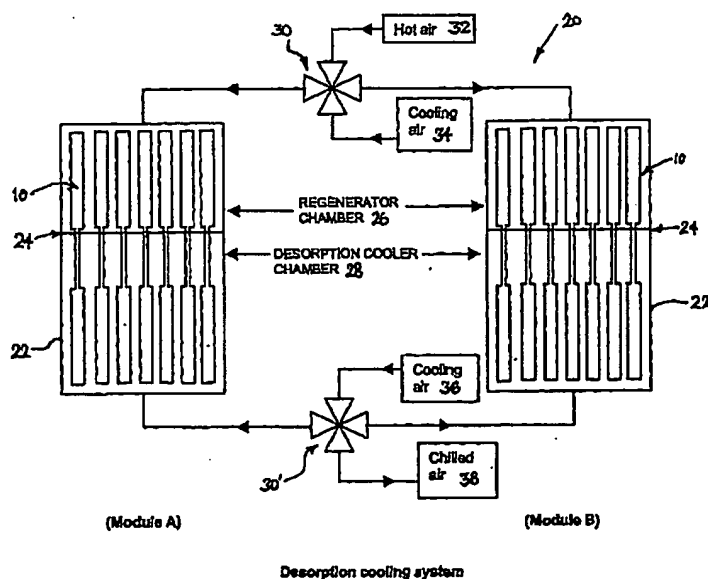
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- (71) Applicant (for all designated States except US): **COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION [AU/AU]**; Limestone Avenue, Campbelltown, Australian Capital Territory 2612 (AU).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **SHARMA, Sunil Dutt [AU/AU]**; CSIRO Energy Centre, Steel River Eco Industrial Park, Murray Dwyer Close, Mayfield West, New South Wales 2304 (AU).
- (74) Agent: **GRIFFITH HACK**; GPO Box 4164, Sydney, New South Wales 2001 (AU).
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(54) Title: **METHOD, APPARATUS AND SYSTEM FOR TRANSFERRING HEAT**



(57) Abstract: A method, apparatus and system for transferring heat is disclosed using a first gas adsorbent material, and a second gas adsorbent material that is relatively thermally isolated from but in continuous gas communication with the first material. In a first step the first material is heated so as to desorb a gas adsorbed onto the first material whereby the gas passes to and is adsorbed onto the second material. In a second step the first material is cooled in a manner so that the gas is desorbed from the second material and passes therefrom to be re-adsorbed onto the first adsorbent material. When the gas is desorbed from the second material, the second material is cooled thereby. In this way a hot gas stream can be used to cool another gas stream.

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